

1 Attorney Docket No. 84454

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3 OPTICAL FIBER COUPLER

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5 ABSTRACT OF THE DISCLOSURE

6 Optical fiber coupler for coupling fiber optic elements
7 includes a first fiber optic element extending in a first
8 direction to position a free end thereof in a selected zone, and
9 a second fiber optic element extending into the selected zone
10 from an opposite direction to position a free end of the second
11 fiber optic element in the zone confronting the first fiber optic
12 element free end. A cured optical grade epoxy resin body defines
13 the zone and envelopes the free ends of the fiber optic elements,
14 to effect physical and optical connection between the first and
15 second fiber optic elements. Once cured, the housing material is
16 removed leaving the completed coupler device. The free ends of
17 the fiber optic elements are in close proximity, or in the case
18 of coupling from one strand to a plurality of strands, in enough
19 of a spaced relation, to permit required light diffusion.